

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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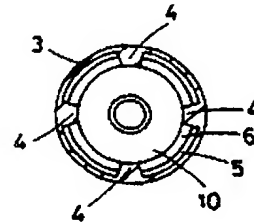
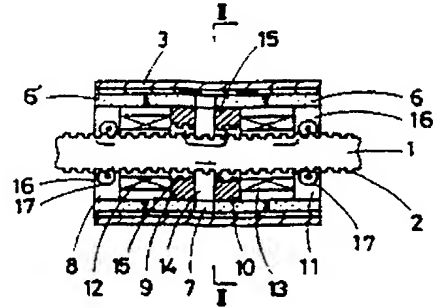
APPLICATION DATE : 10-12-84  
APPLICATION NUMBER : 59261445

APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : SHIBATA KIWAMU;

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TITLE : LINEAR PULSE MOTOR



ABSTRACT : PURPOSE: To reduce the size by disposing a permanent magnet at the outer peripheral side of a pole, thereby shortening the axial length of a carriage.

CONSTITUTION: A magnetic flux by permanent magnets 6, 6' of a linear pulse motor passes from the N-pole of the magnet 6, a pair of poles 8, 9, a stator 1, a pair of poles 10, 11, S-pole of the magnet 6, N-pole of the magnet 6, an iron plate 5 and the S-pole of the magnet 6', with the result that pole teeth 2 opposed to poles 8~11 are polarized. Bipolar pulses displaced  $\pm 90^\circ$  of phase are applied to coils 12, 13, and a carriage 3 moves stepwisely on the stator 1 in response to the pulses. In this case, since the magnets 6, 6' are disposed on the outer peripheral sides of the poles 8~11, the axial length of the carriage 3 can be shortened.

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